

REED Instruments R2170 Thermal Imaging Camera Instruction Manual

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R2170 Thermal Imaging Camera Instruction Manual



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Introduction

Thank you for purchasing your REED R2170 Thermal Imaging Camera. Please read the following instructions carefully before using your instrument. By following the steps outlined in this manual your meter will provide years of reliable service.

Product Quality

This product has been manufactured in an ISO9001 facility and has been calibrated during the manufacturing process to meet the stated product specifications. If a certificate of calibration is required please contact the nearest authorized REED distributor or authorized Service Center. Please note an additional fee for this service will apply.

Safety

- Never attempt to repair or modify your instrument. Dismantling your product may cause damage that will not be covered under the manufacturer's warranty. Servicing should only be provided by an authorized service center.
- Do not point the thermal imager (with or without the lens cover) at intensive energy sources as this can damage the thermal imager.
- Do not use the thermal imager in a temperature higher than 122°F (50°C).
- Always charge the battery between 32 to 122°F (0 to 50°C).
- Clean the case with a damp cloth and a diluted soap solution.
- Do not use abrasives, isopropyl alcohol, or solvents to clean the instrument, lens or screen.

- Do not clean the infrared lens too vigorously, this can damage the anti-reflective coating.
- Store the thermal imager in cool and dry environment.
- Please use the correct emissivity to obtain accurate temperature measurements.
- To ensure accuracy, please let the instrument warm up for 10 minutes before taking a measurement if it has not been used for a long time.
- When being charged, the internal temperature of the product will rise, which will lead to inaccurate temperature measurement, it is not recommended to take measurements during or right after charging the instrument.

Features

- 320 x 240 infrared resolution (76,800 pixels)
- 3.5" color IPS Display
- · Built-in dual LED flashlight
- · Choice of 7 color palettes
- · Intuitive on-screen measurement tools
- 4 image modes (Thermal, Visual Image, Picture-in-Picture, Fusion (Thermal Blending))
- · High and Low temperature spot and alarm indicators
- IP54 and 6.5' (2m) drop tested
- · 4x digital zoom
- · Rechargeable Li-ion battery
- · Tripod mountable for continuous long-term monitoring
- · View, analyze stored data and generate reports or project in real-time
- · Low battery indication and auto shut off

Included

- USB (Type-C) Cable
- Power Adapter
- 2 Rechargeable Batteries
- 32GB Micro SD Card
- · Hard Carrying Case

Specifications

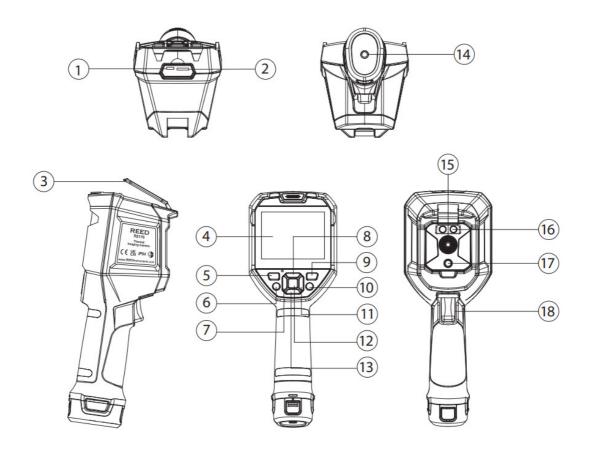
Imaging and Optical Specifications

Field of View (FOV):	56 x 42°
Focal Length:	4.0mm
Spatial Resolution:	(IFOV) 3mrad
Thermal Sensitivity (NETD):	<65mK
Image Capture Frequency:	9Hz
Focus:	Fixed

Measurement		
Temperature Range:	-40 to 752°F (-40 to 400°C)	
Accuracy:	±3.6°F (2°C) or ±2% of reading, for ambient tempera ture at 77°F (25°C)	
Resolution:	0.1°F/°C/K	
Detector Specifications	'	
Detector Type:	Uncooled Vanadium Oxide, Focal plane array (UFPA	
Spectral Range:	8 to 14μm	
IR Resolution:	320 x 240 (76,800 pixels)	
Image Presentation and Measurement Anal	ysis	
Display:	3.5" color IPS	
Color Palettes:	7 (Ironbow/Rainbow/Rainbow(HC)/ Lava/Red-Hot/W hite-Hot/Black-Hot)	
Image Modes:	Thermal, Visual Image, Picture-in-Picture, Fusion (T hermal Blending)	
On-Screen Temperature Markers:	3 (Center/High Temp/Low Temp)	
Image Measurement Tools:	5 Points/3 Rectangles/3 Circles/ 1 Line (add up to 6)	
Emissivity:	Adjustable (0.01 – 1.00)	
Isotherm:	Yes (Below, Above, Interval)	
Temperature Span:	Automatic/Manual	
Temperature Alarm Indicators:	High/Low (user adjustable)	
General Specifications		
Image Capture Modes:	2 (Single/Time-Lapse)	
Display Resolution:	640 x 480 pixels	
Digital Zoom:	Yes (2x/4x)	
Image Format:	JPG	
LED Flashlight:	Yes (Dual)	
External Memory:	Micro SD card	
Auto Shut-off :	Yes (user adjustable 5/10/20/30/45/60/90 mins)	
Tripod Mountable:	Yes	
Low Battery Indicator:	Yes	
Power Supply:	3.7V/5200mAh rechargeable Li-ion battery	
Battery Life:	Approx. 3.5 hours	
Charge System:	In Camera or Battery (USB-C)	

Charge Time:	Approx. 4 hours
PC Connectivity:	USB Cable (USB-C)
Software:	Yes (download from website)
Software Functionality:	Image Analysis/Live Camera Feed/ Report Generati on
Software OS Compatability:	Windows Vista/7/8/10/11
Supported Languages:	English, French, German and Spanish
Product Certifications:	CE, UKCA, IP54, 6.6' (2m) drop test
Operating Temperature:	32 to 122°F (0 to 50°C)
Storage Temperature:	14 to 140°F (-10 to 60°C)
Operating/Storage Humidity Range:	10 to 95%
Maximum Operating Altitude:	6561' (2000m)
Dimensions:	10.2 x 3.9 x 3.8" (260 x 99 x 97mm)
Weight:	1.4lbs (630g)

Instrument Description



- 1. USB Port (USB-C)
- 2. SD Card Slot (Micro SD)
- 3. Lens Cover
- 4. LCD Display
- 5. POWER Button
- 6. LED Light Button
- 7. LEFT Button
- 8. UP Button
- 9. PLAYBACK Button

- 10. BACK Button
- 11. RIGHT Button
- 12. SET Button
- 13. DOWN Button
- 14. Tripod Mounting Hole
- 15. Infrared Camera Lens
- 16. LED Lights
- 17. Digital Camera
- 18. Trigger

Display Description



- 1. Center Spot Temperature
- 2. Maximum Spot Temperature
- 3. Center Spot
- 4. Spot Settings (Markup)
- 5. Image Mode
- 6. Color Palette Settings
- 7. Image Measurement Tools

- 8. Isotherm and Temperature
- 9. Advanced Menu Settings
- 10. Minimum Spot on Temp
- 11. Minimum Spot Temperat
- 12. Maximum Spot on Temp
- 13 Battery Indicator

Power ON/OFF

Press and hold the POWER button for 5 seconds to power ON. To turn OFF, press and hold the POWER button for 3 seconds and select "Yes" from the Shutdown prompt.

If the camera has not been used for a long time or the instrument is not acclimatized to the environment, the camera may take up to 30 minutes from start-up to measure temperatures within stated specifications.

Emissivity

This thermal imager measures infrared energy from the surface of the object and uses this data to calculate an estimated temperature value. Surfaces that are good at radiating energy (high emissivity), the emissivity factor is ≥0.90. Shiny surfaces or unpainted metals are not good at radiating energy (low emissivity) have an emissivity of

<0.6. To more accurately measure materials with a low emissivity, an emissivity correction is necessary. Emissivity is set directly as a value or from a list of emissivity values for some common materials. The following table gives typical emissivity of some materials:

Asphalt 0.95 Concrete 0.95 Hard plaster 0.9 Wood (natural) 0.93 Lime Stone 0.98 Ballast chipping 0.95 Paper (every color) 0.95 Plastics non film 0.95 Tissue (fabric) 0.95 Sand 0.9 Glass wool 0.9 Melted asphalt 0.93 Screed/pavement 0.93 Foamed polystyrene 0.94 Drywall 0.95 Render 0.94 Smoothing cement 0.9 Lacquer 0.92 Latex paint 0.97 Wallpaper 0.93 Tilling 0.93 Parquet floor 0.9 Laminate 0.92 PVC-Floor 0.92 Brick 0.93 Cliff 0.97 Roofing cardboard 0.93 Stucco 0.91	Material	Emissivity
Hard plaster 0.9	Asphalt	0.95
Wood (natural) 0.93 Lime Stone 0.98 Ballast chipping 0.95 Paper (every color) 0.95 Plastics non film 0.95 Tissue (fabric) 0.95 Sand 0.9 Glass wool 0.9 Melted asphalt 0.93 Screed/pavement 0.93 Foamed polystyrene 0.94 Drywall 0.95 Render 0.94 Smoothing cement 0.9 Lacquer 0.92 Latex paint 0.97 Wallpaper 0.93 Tilling 0.93 Parquet floor 0.9 Laminate 0.9 PVC-Floor 0.92 Brick 0.93 Cliff 0.97 Roofing cardboard 0.93	Concrete	0.95
Lime Stone 0.98 Ballast chipping 0.95 Paper (every color) 0.95 Plastics non film 0.95 Sand 0.99 Glass wool 0.99 Melted asphalt 0.93 Screed/pavement 0.93 Foamed polystyrene 0.94 Drywall 0.95 Render 0.94 Smoothing cement 0.99 Lacquer 0.92 Latex paint 0.97 Wallpaper 0.93 Tilling 0.93 Parquet floor 0.99 Laminate 0.99 PVC-Floor 0.92 Brick 0.93 Cliff 0.97 Roofing cardboard 0.93 Roofing cardboard 0.93	Hard plaster	0.9
Ballast chipping 0.95 Paper (every color) 0.95 Plastics non film 0.95 Tissue (fabric) 0.95 Sand 0.9 Glass wool 0.9 Melted asphalt 0.93 Screed/pavement 0.93 Foamed polystyrene 0.94 Drywall 0.95 Render 0.94 Smoothing cement 0.9 Lacquer 0.92 Latex paint 0.97 Wallpaper 0.93 Tilling 0.93 Parquet floor 0.9 Laminate 0.9 PVC-Floor 0.92 Brick 0.93 Cliff 0.97 Roofing cardboard 0.93	Wood (natural)	0.93
Paper (every color) 0.95 Plastics non film 0.95 Tissue (fabric) 0.95 Sand 0.9 Glass wool 0.9 Melted asphalt 0.93 Screed/pavement 0.93 Foamed polystyrene 0.94 Drywall 0.95 Render 0.94 Smoothing cement 0.9 Lacquer 0.92 Latex paint 0.97 Wallpaper 0.93 Tilling 0.93 Parquet floor 0.9 Laminate 0.9 PVC-Floor 0.92 Brick 0.93 Cliff 0.97 Roofing cardboard 0.93	Lime Stone	0.98
Plastics non film 0.95 Tissue (fabric) 0.95 Sand 0.9 Glass wool 0.9 Melted asphalt 0.93 Screed/pavement 0.93 Foamed polystyrene 0.94 Drywall 0.95 Render 0.94 Smoothing cement 0.9 Lacquer 0.92 Latex paint 0.97 Wallpaper 0.93 Tilling 0.93 Parquet floor 0.9 Laminate 0.9 PVC-Floor 0.92 Brick 0.93 Cliff 0.97 Roofing cardboard 0.93	Ballast chipping	0.95
Tissue (tabric) 0.95 Sand 0.9 Glass wool 0.9 Melted asphalt 0.93 Screed/pavement 0.93 Foamed polystyrene 0.94 Drywall 0.95 Render 0.94 Smoothing cement 0.9 Lacquer 0.92 Latex paint 0.97 Wallpaper 0.93 Parquet floor 0.9 Laminate 0.9 PVC-Floor 0.92 Brick 0.93 Cliff 0.97 Roofing cardboard 0.93	Paper (every color)	0.95
Sand 0.9 Glass wool 0.9 Melted asphalt 0.93 Screed/pavement 0.93 Foamed polystyrene 0.94 Drywall 0.95 Render 0.94 Smoothing cement 0.9 Lacquer 0.92 Latex paint 0.97 Wallpaper 0.93 Tilling 0.93 Parquet floor 0.9 Laminate 0.9 PVC-Floor 0.92 Brick 0.93 Cliff 0.97 Roofing cardboard 0.93	Plastics non film	0.95
Glass wool 0.9 Melted asphalt 0.93 Screed/pavement 0.93 Foamed polystyrene 0.94 Drywall 0.95 Render 0.94 Smoothing cement 0.9 Lacquer 0.92 Latex paint 0.97 Wallpaper 0.93 Tilling 0.93 Parquet floor 0.9 Laminate 0.9 PVC-Floor 0.92 Brick 0.93 Cliff 0.97 Roofing cardboard 0.93	Tissue (fabric)	0.95
Melted asphalt 0.93 Screed/pavement 0.93 Foamed polystyrene 0.94 Drywall 0.95 Render 0.94 Smoothing cement 0.9 Lacquer 0.92 Latex paint 0.97 Wallpaper 0.93 Tilling 0.93 Parquet floor 0.9 Laminate 0.9 PVC-Floor 0.92 Brick 0.93 Cliff 0.97 Roofing cardboard 0.93	Sand	0.9
Screed/pavement 0.93 Foamed polystyrene 0.94 Drywall 0.95 Render 0.94 Smoothing cement 0.9 Lacquer 0.92 Latex paint 0.97 Wallpaper 0.93 Tilling 0.93 Parquet floor 0.9 Laminate 0.9 PVC-Floor 0.92 Brick 0.93 Cliff 0.97 Roofing cardboard 0.93	Glass wool	0.9
Foamed polystyrene 0.94 Drywall 0.95 Render 0.94 Smoothing cement 0.9 Lacquer 0.92 Latex paint 0.97 Wallpaper 0.93 Tilling 0.93 Parquet floor 0.9 Laminate 0.9 PVC-Floor 0.92 Brick 0.93 Cliff 0.97 Roofing cardboard 0.93	Melted asphalt	0.93
Drywall 0.95 Render 0.94 Smoothing cement 0.9 Lacquer 0.92 Latex paint 0.97 Wallpaper 0.93 Tilling 0.93 Parquet floor 0.9 Laminate 0.9 PVC-Floor 0.92 Brick 0.93 Cliff 0.97 Roofing cardboard 0.93	Screed/pavement	0.93
Render 0.94 Smoothing cement 0.9 Lacquer 0.92 Latex paint 0.97 Wallpaper 0.93 Tilling 0.93 Parquet floor 0.9 Laminate 0.9 PVC-Floor 0.92 Brick 0.93 Cliff 0.97 Roofing cardboard 0.93	Foamed polystyrene	0.94
Smoothing cement 0.9 Lacquer 0.92 Latex paint 0.97 Wallpaper 0.93 Tilling 0.93 Parquet floor 0.9 Laminate 0.9 PVC-Floor 0.92 Brick 0.93 Cliff 0.97 Roofing cardboard 0.93	Drywall	0.95
Lacquer 0.92 Latex paint 0.97 Wallpaper 0.93 Tilling 0.93 Parquet floor 0.9 Laminate 0.9 PVC-Floor 0.92 Brick 0.93 Cliff 0.97 Roofing cardboard 0.93	Render	0.94
Latex paint 0.97 Wallpaper 0.93 Tilling 0.93 Parquet floor 0.9 Laminate 0.9 PVC-Floor 0.92 Brick 0.93 Cliff 0.97 Roofing cardboard 0.93	Smoothing cement	0.9
Wallpaper 0.93 Tilling 0.93 Parquet floor 0.9 Laminate 0.9 PVC-Floor 0.92 Brick 0.93 Cliff 0.97 Roofing cardboard 0.93	Lacquer	0.92
Tilling 0.93 Parquet floor 0.9 Laminate 0.9 PVC-Floor 0.92 Brick 0.93 Cliff 0.97 Roofing cardboard 0.93	Latex paint	0.97
Parquet floor 0.9 Laminate 0.9 PVC-Floor 0.92 Brick 0.93 Cliff 0.97 Roofing cardboard 0.93	Wallpaper	0.93
Laminate 0.9 PVC-Floor 0.92 Brick 0.93 Cliff 0.97 Roofing cardboard 0.93	Tilling	0.93
PVC-Floor 0.92 Brick 0.93 Cliff 0.97 Roofing cardboard 0.93	Parquet floor	0.9
Brick 0.93 Cliff 0.97 Roofing cardboard 0.93	Laminate	0.9
Cliff 0.97 Roofing cardboard 0.93	PVC-Floor	0.92
Roofing cardboard 0.93	Brick	0.93
	Cliff	0.97
Stucco 0.91	Roofing cardboard	0.93
	Stucco	0.91

Software Installation

Visit <u>www.REEDInstruments.com/software</u> to download the R2170 software.

Full specifications and Operating System compatibility can be found on the product page at www.REEDInstruments.com.

If you have specific questions related to your application and/or questions related to software setup and functionality please contact the nearest authorized distributor or Customer Service at info@reedinstruments.com or 1-877-849-2127.

Operating Instructions

Main Menu

- 1. Press the SET button to enter the main menu. Use the LEFT and RIGHT buttons to scroll through the menu and press SET again to enter sub-menu.
- 2. Follow the instructions below to adjust each parameter.

Enabling/Disabling Center Point & High/Low Temperature Spots

Press the SET button once to access the main menu, then press SET again when is highlighted to access the sub-menu. Use the LEFT and RIGHT arrows to toggle between the options and press SET again to enable/disable the following features:

叴	Display Center Spot Temperature (when enabled the Center Spot temperature will appear in the top I eft corner of the screen)
(3)	Display Maximum Spot Temperature
*	Display Minimum Spot Temperature
12 34	Display Numerical Values on Maximum/Minimum Spot Temperatures

Image Mode Selection

Press the SET button once to access the main menu, then press SET again when is highlighted to access the sub-menu. Use the LEFT and RIGHT arrows to toggle between the image modes and press SET to confirm selection.

Thermal Image
Digital Camera
Fusion (Thermal and Digital Camera Mix) When in this mode the Mix Proportion can be adjusted by pressing the LEFT and RIGHT arrows. Dis tance to the measured object can also be adjusted by pressing the UP and DOWN arrows.
Picture-in-Picture (PIP) When in this mode the PIP box can be moved and adjusted to the desired size.

Color Palette Selection

Press the SET button once to access the main menu, then press SET again when is highlighted to access the sub-menu. Use the LEFT and RIGHT arrows to toggle the palette options and press SET to confirm selection.

White-Hot
Red-Hot
Ironbow
Black-Hot
Rainbow (High Contrast)
Lava
Rainbow

Image Measurement Tools

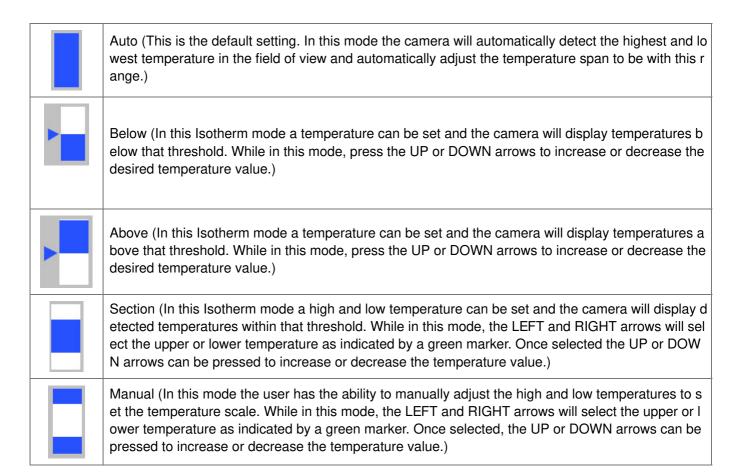
Press the SET button once to access the main menu, then press SET again when is highlighted to access the sub-menu. Use the LEFT and RIGHT arrows to toggle between the measurement tools. Press SET to confirm selection.

Please note a maximum of 6 measurement tools can be used at once. This can be a combination of 5 Points, 1 Line, 3 Rectangles, or 3 Circles.

	Point
/	Line
	Rectangle
0	Circle
	Choose (Select between enabled measurement tools)
∅	Clear (Clear on-screen measurement tools)
Q	Preset (save or load a measurement tool profile)

Isotherm and Temperature Span Settings

Press the SET button once to access the main menu, then press SET again when of is highlighted to access the sub-menu. Use the LEFT and RIGHT arrows to toggle between features and press SET to confirm selection.



The camera is equipped with Dual LED flashlights. Press the LED Light button once to turn the flashlight ON. Press the LED Light button again to turn the flashlight OFF.

Enabling/Disabling Digital Zoom

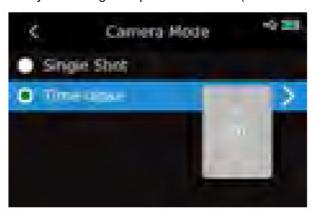
This thermal imager has a 4x digital zoom built into the camera. From the live screen press the UP button once to enable 2x digital zoom, twice to enable 4x digital zoom and press the same button once more to resume normal operation.

Advanced Settings Menu

Press the SET button once to access the main menu, then press SET again when is highlighted to access the sub-menu. Use the UP and DOWN arrows to toggle between the features listed below. Press SET to modify settings for each option.

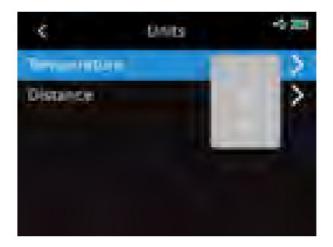
Changing Camera Mode

- Single shot Camera takes a single image when the trigger is pulled.
- Time-Lapse Camera automatically take images at pre-set intervals (between 10 and 1000 secs).



Setting the Unit of Measure

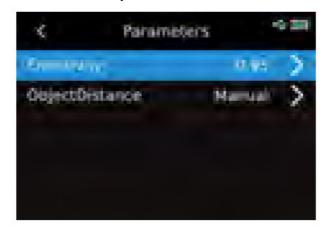
- Temperature Temperature unit of measure can be selected (between Celsius, Fahrenheit or Kelvin).
- Distance Select between Meters and Feet.



Setting Image Parameters (Emissivity and Object Distance)

• Emissivity – Adjust the emissivity value (between 0.01 and 1.00).

• Object Distance – Adjust the Distance to the Object.



Setting High/Low Alarms

- HI Enable the High Alarm and enter a value that will trigger the alarm. When triggered an alarm icon in Red will appear on the display.
- LO Enable the Low Alarm and enter a value that will trigger the alarm. When triggered an alarm icon in Green will appear on the display.
- LED Alert Feature will turn the Dual LED flashlight on and off repeatedly when an alarm is triggered.



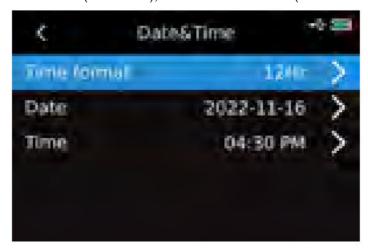
Setting the Language

• Language – Toggle between pre-loaded languages (select between English, French, German and Spanish).



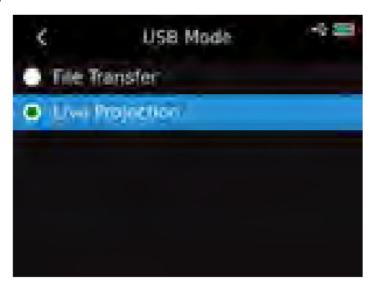
Setting the Date and Time Format

• Date & Time – Modify the time format (12 or 24hr), current time and date (YEAR/MONTH/DAY).



Changing USB Mode

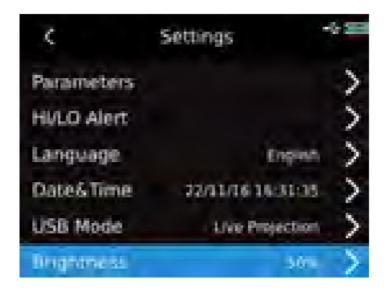
- File Transfer This USB mode should be selected when transferring files between the camera and PC.
- Live Projection- This USB mode should be selected when the camera is being used to project real-time measurements on a PC.



Note: The desired USB Mode should be selected prior to connecting the camera to a PC.

Adjusting Display Brightness

• Brightness – Adjust the screen brightness level (select a value between 0 and 100).



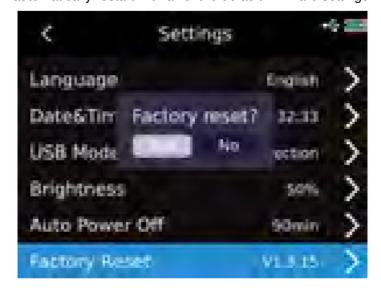
Auto Power Off

 Auto Power Off – Adjust the time before the camera automatically turns off (select between OFF/5/10/20/30/45/60/90mins).



Factory Reset

• Factory Reset – When the SET button is pressed a prompt will appear asking for confirmation. If Yes is selected, the camera will automatically restart with all of the default firmware settings.



Format SD Card

• Format – When the SET button is pressed a prompt will appear asking for confirmation to format the SD card that is inserted in the camera. If Yes is selected, the CD card will be formatted.



Saving, Viewing & Deleting Images

While in normal operation, multiple images can be saved to the Micro SD card.

- 1. To save an image, pull the trigger.
- 2. To display saved images, press the Playback button to enter the picture gallery. Press SET again to see All Photos.
- 3. Use the LEFT and RIGHT buttons to scroll through the list of saved images.
- 4. To select an image press the SET button. Once an image is selected, notes can be added and the measurement tools can be selected to modify and save the images.

Charging the Battery

The included power adapter has been provided to charge the battery faster. Please note the power adapter should only be used when connected directly to the battery with the included USB cable. Charge the camera until the battery LED changes from red to green, indicating the battery is full. The camera can also be charged by connecting to a USB port on your PC. Please note this method will take longer to charge. Note: The power adapter should only be used when connected directly to the battery via the included USB cable. The Power Adapter will not charge the camera if connected directly to camera.

Applications

- · Home and Building Inspection
- · Plant and General Maintenance
- Electrical and Mechanical Inspection
- Predictive Maintenance
- HVAC/R & Plumbing
- · Automotive maintenance
- Solar panel inspection
- · Equine and veterinary

- PCBA inspection
- · Road construction

Accessories and Replacement Parts

R8890 Hard Carrying Case
R2170-3.7V Replacement/Add-On Battery
RSD-16GB 16GB Micro SD Memory Card w/Adapter
R1500 Tripod
Don't see your part listed here? For a complete list of all accessories and replacement parts visit your product page on www.REEDinstruments.com.

Product Care

To keep your instrument in good working order we recommend the following:

- Store your product in a clean, dry place.
- Clean your product and accessories with biodegradable cleaner. Do not spray the cleaner directly on the instrument. Use on external parts only.

Product Warranty

REED Instruments guarantees this instrument to be free of defects in material or workmanship for a period of two (2) years from date of shipment. During the warranty period, REED Instruments will repair or replace, at no charge, products or parts of a product that proves to be defective because of improper material or workmanship, under normal use and maintenance. REED Instruments total liability is limited to repair or replacement of the product. REED Instruments shall not be liable for damages to goods, property, or persons due to improper use or through attempts to utilize the instrument under conditions which exceed the designed capabilities. In order to begin the warranty service process, please contact us by phone at 1-877-849-2127 or by email at info@reedinstruments.com to discuss the claim and determine the appropriate steps to process the warranty.

Product Disposal and Recycling

Please follow local laws and regulations when disposing or recycling your instrument. Your product contains electronic components and must be disposed of separately from standard waste products.

Product Support

If you have any questions on your product, please contact your authorized REED distributor or REED Instruments Customer Service by phone at 1-877-849-2127 or by email at info@reedinstruments.com.

Please visit <u>www.REEDInstruments.com</u> for the most up-to-date manuals, datasheets, product guides and software.

Product specifications subject to change without notice.

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TEST & MEASURE WITH CONFIDENCE



Over 200 portable test and measurement instruments



https://www.REEDInstruments.com/reed-product-guide

www.calcert.com 1.888.610.7664 sales@calcert.com

Documents / Resources



REED Instruments R2170 Thermal Imaging Camera [pdf] Instruction Manual R2170 Thermal Imaging Camera, R2170, Thermal Imaging Camera, Imaging Camera, Camera

References

- <u>iii</u> Calcert
- REEDInstruments.com Test and Measure with Confidence
- Software & Drivers | REED Instruments

Manuals+,